



## COMING EVENTS

## MAY

## 1 THURSDAY

Lecture School of Graduate Studies and Department of Mechanical Engineering. "Mechanical Properties of Polymers, and Design". Dr. P. P. Benham, Senior Lecturer, University of Belfast, Ireland. Room 254, Mechanical Building. 4 p.m.

Seminar Banting and Best Department of Medical Research. " $\beta$ -oxidation in the Glyoxysomes of Castor Bean Endosperm". Dr. T. G. Cooper, Department of Biological Sciences, Purdue University. Room 417, Charles H. Best Institute. 12.30 p.m.

## 2 FRIDAY

Lectures Department of Metallurgy and Materials Science. "Some Aspects of the Gaseous Reduction of Synthetic and Natural Iron Ores". Dr. A. E. El-Mehairy. Room 116, Wallberg Building. 3.30 p.m.

School of Graduate Studies and Department of Chemistry. "Aspects of Mass Spectrometry". Prof. A. Maccoll, University College, London, England. Room 158, Lash Miller Chemical Laboratories. 4 p.m.

## 5 MONDAY

Seminar Banting and Best Department of Medical Research. "Does Tetrahymena Have an Adrenergic Metabolic Control System?" Dr. J. J. Blum, Duke University Medical Center, Durham, N.C. Room 417, Charles H. Best Institute. 12.30 p.m.

## 6 TUESDAY

Lecture School of Graduate Studies and Department of Nutrition and Department of Zoology. "Cell Response to Amino Acid Supply". Dr. H. N. Munro, Massachusetts Institute of Technology. Room 235, School of Hygiene. 4 p.m.

## 9 FRIDAY

Concert Faculty of Music. An Evening of Chamber Music. Directed by David Mankovitz. Concert Hall. 8.15 p.m. Admission free.

## 12 MONDAY

Meeting President's Council meeting. Board Room, Simcoe Hall. 2 p.m.

## 15 THURSDAY

Lectures School of Graduate Studies and Department of Biochemistry. "The Conformational Basis of Energy Transductions in Membrane Systems". Prof. D. E. Green, Co-Director, Institute for Enzyme Research, University of Wisconsin. Room 114, Charles H. Best Institute. 11 a.m.

School of Graduate Studies and Department of Mechanical Engineering. "Trends of Development in Fluid Mechanics". Dr. Jan Jerie, Czechoslovak Academy of Sciences, Prague, Czechoslovakia. Room 254, Mechanical Building. 4 p.m.

Seminars School of Graduate Studies and Department of Biochemistry. "The Structure of Biological Membranes". Prof. D. E. Green. Room 114, Charles H. Best Institute. 2 p.m.

"Pollution Probe". Presented by members of Pollution Probe. Trinity Buttery. 7.30 p.m. Those interested are invited.

## 23 FRIDAY

Lecture Department of Psychiatry. "Man and Aggression—An Optimist's View". Dr. R. Melzack, McGill University. Clarke Institute of Psychiatry Auditorium. 11 a.m.—12.30 p.m.

Supper The Faculty Club's Buffet Supper. 5.30–8 p.m.

## Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

## Thursday, May 1

David M. Cameron, Department of Political Economy. "The Politics of Education in Ontario, With Special Reference to the Financial Structure". Thesis supervisor: Prof. J. S. Dupré. Room 207, 65 St. George Street. 10 a.m.

Ernest A. Portfors, Department of Mechanical Engineering. "Turbulent Mixing". Thesis supervisor: Prof. J. F. Keffer. Room 201, 65 St. George Street. 10 a.m.

Wilfred G. A. Fletcher, Department of Educational Theory. "Scoring for Partial Knowledge in Mathematics Teaching—A Study of a Modification and an Extension of Multiple-Choice Items Applied to the Testing of Achievement in Mathematics". Thesis supervisor: Prof. S. Nishisato. Room 201, 65 St. George Street. 2 p.m.

Gary H. Paterson, Department of English. "The Place of the Roman Catholic Church in the Literature of the Decadence in England". Thesis supervisor: Prof. P. Grosskurth. Room 207, 65 St. George Street. 2 p.m.

## Friday, May 2

Kian Eng Chua, Department of Zoology. "A Qualitative Investigation of Interaction Between Three Tubificid Species and the Sediment". Thesis supervisor: Prof. R. O. Brinkhurst. Room 201, 65 St. George Street. 10 a.m.

Mrs. Freda E. Hawkins, Department of Political Economy. "Canadian Immigration, A Study in Public Policy, 1946–1968". Thesis supervisor: Prof. J. S. Dupré. Room 207, 65 St. George Street. 10 a.m.

Miss Catherine McCauliff, Centre for Medieval Studies. "The Marriage Portion in Twelfth and Thirteenth-Century English Land Law". Thesis supervisor: Prof. T. A. Sandquist. Round Room, Massey College. 10 a.m.

Ivor A. Arnold, Department of French. "Style and Structure in the Shorter Version of Villiers de L'Isle-Adam". Thesis supervisor: Prof. P. R. Robert. Room 207, 65 St. George Street. 2 p.m.

C. Y. Leung, Department of Physics. "Positron Annihilation in Helium". Thesis supervisor: Prof. D. A. L. Paul. Round Room, Massey College. 2 p.m.

## Monday, May 5

John S. Cowan, Department of Physiology. "Development and Evaluation of a New Tracer Method and Its Application to an Analysis of the Glucoregulatory System in Dogs". Thesis supervisor: Prof. G. Hetenyi, Jr. Room 201, 65 St. George Street. 10 a.m.

Peter N. Oliver, Department of History. "The Making of a Provincial Premier, Howard Ferguson and Ontario Politics: 1870–1923". Thesis supervisor: Prof. G. R. Cook. Room 207, 65 St. George Street. 10 a.m.

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Study Group recommends  
much stronger federal role  
in support of research

"The Role of the Federal Government in Support of Research in Canadian Universities" is the seventh in a series of special studies commissioned by the Science Council of Canada. With Canada Council as a co-sponsor, the report discusses the goals, policies, organization, management and financing of research and offers a detailed blueprint for the expansion its authors consider to be essential if Canada is to maintain its place among the nations in a rapidly changing world.

Of the seven who constituted the Study Group, three are members of the Faculty of the University of Toronto. They are Dr. John B. Macdonald, Professor of Higher Education (and Vice-Chairman of the Committee of Presidents of Ontario Universities), who chaired the group; Dr. Ernest Sirluck, Vice-President and Graduate Dean; and Dr. J. Stefan Dupré, Director of the Centre for Urban and Community Studies.

"The recommendations in this Report have one purpose—improving the quality of the research effort in our universities," Prof. Macdonald said.

"We see that purpose being accomplished through a tripartite partnership with specific responsibilities being accepted by the federal government, the provincial governments and the universities. The report identifies these responsibilities, and for the federal government and the universities, specifies how they should be met. We believe that federal support in all cases should rest on adjudication of proposals with the object of assessing merit. The concept of merit includes intrinsic worth and the need to encourage regional balance, balance between English and French-speaking universities, and balance between large universities and small universities."

The Study Group recommends that:

1. Federal research councils be organized in such a manner that, when taken together, their terms of reference will encompass all disciplines recognized by Canadian universities.

2. The Medical Research Council be reconstituted as a Health Sciences Research Council and authorized to support research in all sciences related to health.

3. The National Research Council be reconstituted so as to have as its sole responsibility the support of scientific and engineering research in universities and related institutions.

4. The mandate of the Canada Council to support research in the humanities and social sciences be terminated.

5. The federal government create a Humanities and Social Sciences Council having as its prime function the support of research in Canadian universities.

6. There be established an Intercouncil Co-ordinating Committee.

7. The National Research Council, the Health Sciences Council, and the Humanities and Social Sciences Council each receive the status of an agency corporation of the Government of Canada.

8. a) Appointments by Cabinet to membership on research councils be preceded by a broad canvass of researchers, universities and the greater public;

b) The number of members on each council be no smaller than nineteen and no larger than twenty-four;

c) Two or more of the senior executive officers of each council be full members of council;

d) Save for the senior executive officers, members be appointed on a rotating basis to three-year terms once renewable;

e) The total membership of each

## MAY 8 DEADLINE

All material for the next issue should be in the hands of the editor, Mrs. Winogene Ferguson, by noon on the 8th of May. Her address is Room 225, Simcoe Hall (928-2102).

council at any point in time offer a judicious blend of researchers, university administrators and the greater public.

9. The Science Council of Canada Act be amended so as to provide for appropriate representation on the Council of the social sciences.

10. The Government of Canada create a Canadian Universities Research Advisory Committee to make available to Treasury Board advice on the allocation of public funds for sponsored research in Canadian universities.

11. The research grants of the federal research councils cover all the normal direct costs of university research whenever these grants are made. (See also recommendation 23.)

12. In the interest of a strong program of research, the primary considerations of all councils in judging grant applications be the merit of the proposals and the qualifications of the applicants to carry them out.

13. Membership on review committees be for limited terms and that replacement members be selected by a system which does not depend on the judgment of members of the committee.

14. Each of the federal research councils consider applications for group grants or program grants in addition to individual project grants.

15. Funding of major proposals should be available where the submission warrants such action.

16. All the federal research councils be prepared to consider applications for Negotiated Development Grants designed to build on strength.

17. All the federal research councils be prepared to consider applications for Strategic Development Grants designed to initiate new programs.

18. Subject to initiation by the councils of a program of strategic development grants, non-adjudicated general purpose grants be discontinued.

19. All councils offer postdoctoral fellowships for recent graduates to enhance their qualifications for a career in research.

20. Research Leave Fellowships be available through each council.

21. The councils not engage in programs such as the Medical Associateships.

22. The present form of NRC grants to university computing centres be discontinued, and that computing for research be supported from the normal operating grants of all federal research councils.

23. The federal research councils meet the full indirect costs arising from council-supported research in each university.

24. The indirect cost allowance payable by the federal research councils be 35 per cent of the direct research support given to each university.

25. A system be established to referee cases which might be exceptions to the normal pro-rata payment of indirect costs. Cases to be considered could be initiated either by the councils or the universities.

26. The federal government, through the Privy Council Office or some other appropriate central agency, undertake a

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# Study Group recommends much stronger federal role

(Continued from page 1)

comprehensive study of government intramural laboratories with particular attention to:

- a) the siting of such laboratories in relation to university campuses;
- b) the terms under which intramural laboratories can be used by graduate students and researchers holding university appointments;
- c) the conditions under which government employees may teach in universities and engage in university research;
- d) the advisability of placing certain designated laboratories under university management.

27. Each mission-oriented agency engaged in research support establish, as appropriate, one or more advisory committees made up in part of university representatives and charged with:

- a) evaluating the balance between the agency's intramural and extramural research programs;
- b) advising the agency as to ongoing research of relevance to the agency's mission;
- c) advising the agency as to the disbursement of funds for the support of research relevant to its mission.

28. The federal government designate an appropriate agency as responsible for the development and maintenance of a central register of all research projects and programs funded from federal sources.

29. Each mission-oriented agency requiring research be directed to solicit and entertain university submissions for support of research projects, programs or major proposals relevant to its mission under generally the same terms and procedures as the councils.

30. All mission-oriented agencies be directed to pay the full direct and indirect costs of any research they may support in universities.

31. Supplementary remuneration to university researchers, where permitted by a university, be excluded from the base on which indirect cost allowances are calculated.

32. In any instance where only the raw source material to which university researchers are to be given access is confidential, each government agency specify the terms under which researchers are to be given clearance and certify in advance the conditions under which findings based on this source material will be made public.

33. Neither government nor universities attempt to enter into arrangements involving universities in work which cannot be published. Any exception to this principle should be subject to the most formal review procedures in both the university and the agency concerned.

34. Any mission-oriented agency be eligible to apply for authority to fund the full start-up costs of university research institutes destined to be of service to governmental and industrial clients.

35. The federal government thoroughly re-evaluate section 2900 of the Income Tax Act Regulations to determine the advisability of including in the term "scientific research and development" research in the social sciences and humanities, and generally all research designed to improve decision-making in business.

36. In co-operation with the universities, the federal government convene an annual conference of research administrators.

37. Without exception, federal funding of university research projects or of research leave fellowships require prior endorsement of the project or leave by a responsible university administrator, and be channeled exclusively through universities.

38. While retaining the overriding right to audit the appropriate university accounts when circumstances clearly warrant, all federal agencies accept, without supporting vouchers and subject only to the university's own internal audit, university accounts of research project expenditures.

39. When university projects are funded through a federal-provincial program, the federal auditing of provincial

books require no evidence of university disbursements other than that which universities would normally be required to provide for projects supported solely by federal agencies.

40. Each federal agency be authorized to negotiate common grant accounts in those universities where, in the joint opinion of the agency's representatives and the university's business officers, the number of research projects concurrently receiving support is such as to make a common grant account desirable.

41. The practice of funding university research projects by cost reimbursement be discontinued.

42. All federal agencies make their support available through advance instalments and that the instalments be no more frequent than quarterly and that no agency require universities to submit more than semi-annual fiscal reports.

43. The practice of holding back a portion of research support funds to ensure satisfactory project completion be available only to mission-oriented agencies and be applied only against the personal remuneration of the principal investigator.

44. All federal agencies be authorized, where the nature of the project warrants, and subject to the funds being voted by Parliament, to enter into formal agreements to support research projects for periods of up to three years.

45. Save in exceptional circumstances mutually agreed upon by the principal investigator and the supporting agency, the only substantive report required of projects whose duration is one year or less be the terminal report.

46. Where the term of project support exceeds a period of one year, annual progress reports be the rule.

47. All federal agencies engaged in the support of university research, and the councils in particular, develop a program of selective site visits appropriate to the scope of their research support activities.

48. The test for the remuneration of research support personnel be each university's faculty and employee salary policy for the current academic year, and that therefore no agency impose ceilings on the remuneration of research support personnel.

49. The federal government proceed to discontinue the use of contracts and grants for university research support in favor of a new legal instrument to be called a research agreement.

50. a) Program support be generally subject to the same management practices as project support;

b) The legal instrument for program support be a research agreement;

c) Program support be extended over terms of no less than three years;

d) One year's notice be given upon the termination of program support.

51. The funding of that portion of major proposals which relates to equipment operating and research expenditures be by research agreement.

52. Negotiated and strategic development support be made available in the form of a grant.

53. Research agreements not be used as the instrument of support where

- i) a piece of hardware is the end product;
- ii) an agency is purchasing personal consulting services;
- iii) the end product of the research is classified.

54. Authority to enter into research agreements be extended to royal commissions and related bodies.

55. The test for the remuneration of recipients of postdoctoral and research leave fellowships be each university's faculty and employee salary policy for the current academic year.

56. Universities be reimbursed for the employer portion of any fringe benefits payable on behalf of staff holding federal research leave fellowships.

57. When a university extends normal fringe benefits to postdoctoral fellows, the university be reimbursed for the employer portion of the fringe benefits payable on behalf of individuals holding federal postdoctoral fellowships.

58. All remuneration to university

research personnel arising from federal research councils and other agencies, including research leave and postdoctoral fellowships, be deemed taxable.

59. The federal government study and implement appropriate means of remedying any anomalies arising from the taxation of remuneration paid to university research personnel funded by federal agencies.

60. As a matter of urgent priority, a federal-provincial conference be convened to:

a) consider generally the means whereby the federal government can make a direct contribution to university buildings or parts of buildings which can be identified clearly as research facilities;

b) consider specifically the establishment of a federal Research Facilities Corporation which would:

i) administer a Research Facilities Fund supported by an annual federal vote having an initial level of \$120 million per year;

ii) receive university applications for the support of building projects for research, such applications to have been approved by the President and Board of Governors, to specify total capital and operating costs, and to certify all contributions from non-federal sources;

iii) adjudicate, through all appropriate means including site visits, these applications on the basis of such criteria as merit and the need for balance among regions and among English and French language universities;

c) consider specifically an appropriate phasing out of the Health Resources Fund in favour of the Research Facilities Corporation.

61. The costs of scholarships and bursaries for full-time graduate students, both Canadian and non-Canadian, paid by the provinces, or by the universities from their general purpose revenues be recognized as allowable costs in computing the federal government's contribution to university education through the fiscal transfer arrangements.

62. Concurrently with arrangements to allow graduate student awards as a cost in computing the fiscal transfer, the research councils adopt a policy of offering competitive scholarships limited to about 10 per cent of the full-time graduate enrolment.

63. Concurrently with arrangements to allow graduate student awards as a cost in computing the fiscal transfer, the policy of permitting the support of graduate students through research grants be discontinued except when it can be clearly established that the services of the student are essential to the performance of the research.

64. All support of foreign graduate students under the auspices of the federal government become a responsibility of the Canadian International Development Agency.

65. The federal government, through the National Library, adopt as a firm objective a machine-readable National Union Catalogue.

66. The National Library organize, finance and conduct a Catalogue Planning and Development Conference at which, the research resources and catalogue condition of Canadian libraries are analyzed, their progress towards catalogue automation determined, and present co-operative (e.g., inter-institutional) and group (e.g., provincial) plans and undertakings recorded.

67. On the basis of this information the National Library propound a program to support, expedite, and extend catalogue automation in selected institutions and regional centres in such a manner that the first phase would bring the largest possible proportion of the country's research stock under automated control for the smallest investment consistent with the full development of the country's potentialities. These federal payments, made through the National Library, should be predicated upon:

a) the acceptance by all participants of a common format;

b) their agreement to deliver to the National Library, for use as input to the National Union Catalogue, copies of all tapes, discs, etc., containing catalogue information, and

c) their committing themselves to the systematic maintenance of catalogue automation, and the transmission of the

resultant information to the National Union Catalogue, for a specified period of years.

68. When this initial program has been negotiated and implemented, the National Library prepare a second program for the gradual enlargement of participation by institutions not included in the first but with an important research capacity that could, at reasonable cost, be brought into the system.

69. The federal government ensure that the information transferral needs of Canadian research libraries be a part of the specifications for any national communications system which it may develop or support, and that in the meantime it reserve a number of prime channels in all broad-band transmission systems developed in Canada sufficient to serve these needs.

70. In fiscal 1970 the Humanities and Social Sciences Council distribute to Canadian universities not less than \$2,000,000 in support of the purchase of library research materials, to which should be added 100 per cent in consideration of administrative costs, and that in fiscal 1971 the amount be not less than \$4,000,000 to which should be added the administrative cost allowance.

71. The National Research Council and the Health Sciences Council entertain applications from universities for support of especially appropriate strengthening or development of library research capacity in science, engineering and health fields respectively.

72. The National Science Library revise its acquisitions policy by recognizing that it is neither possible nor desirable to bring together in Ottawa all publications capable of contributing to the development of science, technology, and medicine in Canada, and that instead it develop, in collaboration with Canadian university libraries, proposals for a co-operative acquisitions program which, taken as a whole and in the context of the national system of research libraries proposed above, will make available within Canada the optimum library support for research and development in science, technology, and medicine.

73. The National Library formulate an explicit acquisitions policy.

74. One aspect of this policy be the development of a comprehensive collection of Canadiana.

75. The National Library formulate its other collecting responsibilities in the context of the nation-wide system of research libraries recommended above and after consultation with the other participants, with a view to assuming primary responsibility within this system for government documents, publications of international bodies, data banks, bibliography and library science, and certain agreed subject fields in which interaction with government is greatest, such as economics, political science, sociology, communications, law, etc.

76. The chief responsibility in the Canadian research library system for collecting the materials of research and research training in the humanities and the traditional social sciences remain in the universities, and that the National Library collect in these fields only by way of planned supplementation to the acquisitions programs of other participants in the system.

77. The National Library not develop a research capacity for local convenience which is not required for the national system.

## Urges employment of U of T students during summer

University departments, both academic and administrative, are urged to employ U of T students if they require temporary staff for special research projects, special programs, or vacation relief this summer. "I hope every department needing temporary personnel will make every effort to fill its requirements by hiring our own students", said Allan W. Headrick, director of the U of T Career Counselling and Placement Centre, the new name for Placement Service.

For student summer help, telephone any of these numbers: 928-2537, -2538, or -2539.



# Study of Canada is urged in GSU brief to CUG

The Graduate Students' Union, representing the 8,000 full-time and part-time graduate students at the University of Toronto, submitted a brief to the Commission on University Government.

Of the 8,000 graduate students, 5,170 are enrolled in the School of Graduate Studies, 1,100 are in the College of Education, 1,050 in Ontario Institute for Studies in Education, and the remainder are in a dozen other University divisions.

The submission, approved by the GSU executive, was drafted by Denis Kennedy, who was chairman of the drafting committee; John Winter, 1968-69 GSU president; Gary Teeple, and B. Mel Katz.

Text of the brief follows:

## *Towards a Canadian Relevance*

Presently, the most pressing problem facing the Canadian university is its own integrity as a Canadian institution. It lacks an intellectual ethos, and there are no intellectual centres, just as there are no outstanding schools of thought. Journals of opinion are too few, and they are insipid and dull with almost no exceptions. The intellectual orientation, like the economic orientation of Canada, is strongly towards the United States. The purpose of the Canadian university, therefore, must be two-fold. It must establish itself as a clear and distinguishable institution in its own right, and it must help to create a Canada separate and distinct from the cultures of other countries. The realizations of these goals go hand-in-hand.

[A footnote in the brief said: "To discuss the purpose of the university in society is not to discuss the individual academic's role in society, for surely he is free to do as he pleases, politically and socially."]

In order to establish itself as a Canadian institution, the university must begin to encourage Canadian scholars to develop a sense of Canada—a Canadian viewpoint. (This would include the sociology of Canadian society and the development of the North.) Academic journals in all spheres of knowledge should be developed to encourage the articulation and criticism of Canadian views and values. Furthermore, it would appear necessary that the Canadian university must undertake the study of Canada. That is, we must launch studies of this country in all realms—scientific, economic, social, political, and so on. These necessarily, would be studies and research that would enhance the development of the university as a distinctly Canadian institution and of Canada as a political entity. To achieve these goals, it should be made mandatorily by Charter, that all permanent positions, whether teaching or administrative, be advertised in Canadian journals before they are filled.

The university should participate in defining Canadian interests and policies. Insofar as the work of professors is guided by this principle, their engagement and promotion should be based on the following criteria: their ability to teach, their research capability, their contribution to Canadian society, their contribution to the university, and their contribution to the advancement of particular areas of knowledge. The Canadian university, then, must be more than just a means of counteracting the encroachment of other cultures. It should be a truly autonomous and intellectual but socially dedicated institution which would become an important factor in the critique and development of Canadian society and culture.

## *Structural proposals*

The graduate students strongly recommend a unicameral system of government to the traditional bicameral one and we suggest that this body be called the Senate. The current division of governmental institutions into an academic body and a financial one is completely unrealistic, as the two aspects of policy making are necessarily integrated in practice. In an era of increased participation by the university community in its own affairs, it would reduce the likelihood of

conflict to have a simple, easily comprehensible, system of government.

The Senate proposed by the G.S.U. should represent all the parties interested in higher education: faculty; administrators; graduate students; undergraduate students; the public; the alumni. We suggest 16 teachers; 8 graduate students; 8 undergraduate students; 8 alumni; 8 administrators; 16 public representatives. (Globe and Mail, March 7, 1969: The one tier government proposed for Waterloo University will have sixty members including students, faculty, administrators, alumni and public representatives.) The faculty representatives should be selected by their respective constituencies in staggered elections held every two years, by mail order ballots, in the four divisions of a) Humanities, b) Social Sciences, c) Physical Sciences, and d) Life Sciences. The alumni would be elected by mail order ballot en bloc, held every two years, in staggered elections. The graduate and undergraduate representatives should be elected annually en bloc. The public representatives should be appointed by the Minister of University Affairs, in most cases on the nomination of a wide variety of social and economic groups, to be enumerated by order-in-council. A list of administrators, designated under Senate by-laws, should be given ex-officio membership. The president of A.T.S., of the Alumni Association, of G.S.U. and S.A.C. should also be members ex-officio, to preserve channels of communication.

The Senate should be obliged by its charter to meet at least six times a year. It should possess an Executive Committee that meets at least twice a month during the academic year. The Senate should act as the policy-making body of the University. The Executive Committee should be cited in the Charter and include the president, two vice-presidents, two professors, two public representatives, one graduate student, one undergraduate and one alumnus. This Executive Committee would act as a Steering Committee between Senate meetings with their decisions subject to approval by the latter.

In order for university government to function efficiently and to maximize effective participation by its members in its affairs, it is essential there should be considerable devolution. The Senate must have authority under its Charter to create whatever inferior bodies it deems useful by by-law. It should be authorized to delegate whatever powers it wishes to them, and to determine their compositions. Nevertheless, this broad discretionary authority to delegate power to other bodies must remain limited by two conditions. First, that all decisions taken by inferior bodies shall be taken by vote and in a manner consistently with standard parliamentary practice. Second, that the Senate shall retain full right of access to information on their decisions and the reasons: this shall be provided on a written request of a quorum. We oppose emphatically the management of departments by the personal authority of heads of departments and any diminution of the authority of a unicameral Senate by the development of practices of secrecy. The departmental committees, the School of Graduate Studies, the Caput, the Faculty Council for Arts and Sciences and other existing bodies, shall continue to exist in their present form until abolished or amended.

We are convinced that the selection of the President should not be the responsibility of the ordinary governing body of the University. The President is called upon to act as an educator, fund raiser, administrator, policy maker, ombudsman and arbitrator. The degree of community confidence in him should consequently be very extensive and it is necessary that a consensus should be sought for his appointment or reappointment. The nomination of a President should be entrusted by the University Charter to a select body including teachers, students, public representatives and alumni. The Senate naturally should retain the right of appointment from the candidate or candidates proposed by this electoral commit-

tee. The term of office should not exceed four years and re-appointment more than once should be prohibited.

The continued existence of the other senior officer of the university, the Chancellor, seems unnecessary. No more ceremonial office without obvious responsibilities should be retained. However, since the Presidency should be a leadership position unencumbered with mere routine duties, the Chancellorship could be maintained if given the responsibility of chairing the Senate and other major faculty meetings. The President's current combination of roles involved in simultaneously chairing meetings and presenting policies for approval are clearly inconsistent with the parliamentary tradition. The Chancellorship, if retained, should also be nominated by a select committee, subject to the Senate's approval.

## *Graduate Student Interests*

Any sociological profile of graduate students necessarily differentiates them markedly from undergraduate students. They are seven or eight years older, two-fifths are married, they are frequently employed in part-time staff positions, and they possess much greater financial security. They attend different classes in order to attain higher degrees, they do not have memberships in the colleges but generally belong to the Graduate Students' Union and they have a shorter and more tenuous relationship with the university. Their goals are very different from those of undergraduates since two-thirds intend to enter the teaching profession. We believe that participation in

the governing body of the University by graduate students is essential for the promotion of their interests. A *sine qua non* for effective participation is a separate electoral constituency including all students registered in the School of Graduate Studies. This electoral separateness is the rule at all universities in Canada about which we have been able to obtain definite information. (McMaster, Alberta, British Columbia, Laval, and Western Ontario.)

The Graduate Students' Union is the only representative body for graduate students and we are convinced that our existence should be recognized by the University Charter. The need for Charter recognition is strengthened by the marked alienation of graduate students from S.A.C. and their acute dissatisfaction with the conditions of life and study provided by the University. We assume that such recognition would include the right of all students registered in the School of Graduate Studies to belong to the Graduate Students' Union, and the right of the latter to be an incorporated body. The Graduate Students' Union needs to have the right to levy membership dues, providing that they have been assented to by a constitutionally called General Meeting, and to have such membership fees collected by the University. Other graduate faculties not in the School of Graduate Studies should have a Charter right to opt in or out of the Graduate Students' Union providing that this decision has been taken by a majority vote at a General Meeting or by a referendum.

## Ph.D. Orals

(Continued from page 1)

Michael Pietrusewsky, Department of Anthropology. "An Osteological Study of Polynesian Skeletal Remains". Thesis supervisor: Prof. B. Yamaguchi. Room 201, 65 St. George Street. 2 p.m.

William C. Graham, Department of Philosophy. "Strawson's Concept of a Person". Thesis supervisor: Prof. J. H. Woods. Round Room, Massey College. 10 a.m.

Tuesday, May 6

David Murray Graham, Department of Psychology. "Acquisition of an Instrumental Response in Young Children Under Various Conditions of Reinforcement". Thesis supervisor: Prof. A. Amsel. Round Room, Massey College. 10 a.m.

Edward Glynn, Department of Educational Theory. "Self-Determined and Externally-Determined Token Reinforcement Schedules in Classroom Learning". Thesis supervisor: Prof. H. I. Day. Room 207, 65 St. George Street. 10 a.m.

William H. Turner, Department of English. "George Eliot's Narrative Technique". Thesis supervisor: Prof. D. R. Carroll. Room 207, 65 St. George Street. 2 p.m.

Kenneth S. Freedy, Department of Near Eastern Studies. "The Literary Relations of Ezekiel, A Historical Study of Chapters 1-24". Thesis supervisor: Prof. J. W. Wevers. Round Room, Massey College. 2 p.m.

(Degree of Doctor of Social Work) Nathan Markus, School of Social Work. "Staff Participation in Organizational Change". Thesis supervisor: Prof. E. Govan. Room 201, 65 St. George Street. 2 p.m.

Wednesday, May 7

John I. Dickson, Department of Metallurgy. "Slip and Twinning Processes in Zirconium". Thesis supervisor: Prof. G. B. Craig. Room 201, 65 St. George Street. 10 a.m.

Ronald Worton, Department of Medical Biophysics. "Physical Characterization of Hemopoietic Stem Cells". Thesis supervisor: Prof. J. E. Till. Round Room, Massey College. 10 a.m.

Mrs. Christina Roberts, Department of French. "Gide and Dostoevsky". Thesis

supervisor: Prof. J. S. Wood. Round Room, Massey College. 2 p.m.

C. S. Hunter, Department of English. "Imagination and Intuition: A Study of the Writings of Thomas Traherne". Thesis supervisor: Prof. R. A. Greene. Room 201, 65 St. George Street. 2 p.m.

Thursday, May 8

Alan K. Bowman, Department of Classics. "The Municipal Senates of Roman Egypt". Thesis supervisor: Prof. A. E. Samuel. Room 207, 65 St. George Street. 10 a.m.

Alfred Richard Hoermann, Department of History. "A Figure of the American Enlightenment: Cadwallader Colden". Thesis supervisors: Profs. R. M. Saunders and W. H. Nelson. Round Room, Massey College. 10 a.m.

Craig J. Simpson, Department of Metallurgy. "The Effect of Solute and Temperature on Boundary Migration". Thesis supervisors: Prof. K. T. Aust and Dr. W. C. Winegard. Room 201, 65 St. George Street. 10 a.m.

Leslie E. Johnston, Department of Chemistry. "Polarography and Coulometry of Rhodium (III) in Aqueous Pyridine and Ammonia Media". Thesis supervisor: Prof. J. A. Page. Room 128, Lash Miller Building. 10:30 a.m.

James D. Benson, Department of English. "The Moral-Aesthetic Problem in George Eliot's Fiction". Thesis supervisor: Prof. J. M. Robson. Round Room, Massey College. 2 p.m.

Lloyd D. Reid, Institute for Aerospace Studies. "An Investigation into the Dynamics of the Human Operator Involved in a Pursuit Task". Thesis supervisor: Prof. B. Etkin. Room 207, 65 St. George Street. 2 p.m.

Harry Ing, Department of Physics. "Resonance Capture of Neutrons". Thesis supervisor: Prof. H. W. Taylor. Room 207, 65 St. George Street. 4 p.m.

James Ash, Department of Computer Science. "Analysis of Multistep Methods for Special Second-Order Ordinary Differential Equations". Thesis supervisor: Prof. T. E. Hull. Room 201, 65 St. George Street. 4 p.m.

## EXHIBITIONS

Arts of Forgotten Peoples exhibition shows utensils, crafts, weapons, religious and other objects of the major native culture areas of North America, Africa and Polynesia. Guided tours Monday-Friday at 2 and 3 p.m. Until June 22. ROM.

McLaughlin Planetarium. "Between the Stars". Until May 4. Tuesday to Friday, 3.30 and 8 p.m.; Saturday, 11 a.m., 2, 3.30, 5 and 8 p.m.; Sunday, 2, 3.30 and 5 p.m. Buy tickets in advance at the Planetarium Box Office. Adults \$1, students and children (8-14 years) 50¢. Children under eight years old not admitted to the Star Theatre.

The Seven Years' War exhibition — historical paintings, portraits and drawings

recall the mid-18th century conflict between France and Britain for possession of Canada. Included are memorabilia of General Wolfe. Sigmund Samuel Canadiana Building. Until June 29.

## Senate meets on May 9

Tickets will be available for the University of Toronto Senate meeting to take place in the Senate Chamber, Simcoe Hall, on Friday, May 9, at 8.15 p.m. They will be at the inquiry desk in the foyer of Simcoe Hall from 10 a.m. to 4 p.m. from Wednesday, May 7.



# STAFF NOTES

## Arts and Science

DEAN A. D. ALLEN attended the spring meeting of the American Chemical Society, Minneapolis, April 15-16, and presented the opening paper in a symposium devoted to recent developments in the chemistry of metal-nitrogen compounds.

PROF. R. M. SMITH attended the meetings of the American Oriental Society in New York, March 25-27, where he read a paper on "Some Epic Statistics".

The following members of the Department of East Asian Studies attended the American Oriental Society meeting in New York: PROF. G. T. ARTOLA, P. BANDYOPADHYAY, PROFS. D. MALVANIA, I. J. McMULLEN, H. SADDHATISSA, C. C. SHIH, R. M. SMITH, R. N. VARMA, T. VENKATACHARYA, and D. B. WATERHOUSE.

PROF. C. STEVENS attended the Association for Asian Studies meetings in Boston, March 28-30, where she presented a paper "On the Slopes of Charngebaan: the Anatomy of a Drumsong". She attended by invitation the founding meeting of the Conference on Chinese Oral and Performing Literature, held at Cornell University from March 31 to April 1.

The following members of the Department of East Asian Studies also attended the Association for Asian Studies meeting in Boston: PROFS. R. CHU, A. V. LIMAN, B. K. MATILAL, W. G. SAYWELL, C. STEVENS, MISS K. TSURUOKA, PROFS. K. TSURUTA and N. K. WAGLE, and MRS. C. LEE.

## University College

PRINCIPAL DOUGLAS LEPAN is to receive an honorary degree from Queen's University on May 23 on the occasion of its Convocation for the School of Graduate Studies, the Queen's Theological College, and McArthur College of Education.

PROF. O. H. T. RUDZIK gave a paper to the English Conference of Johns Hopkins University at Baltimore, March 13, on "Victorian Platonism and Literary Theory".

PROF. P. R. DUCRETET spoke on "What Computers can do in the Humanities" at the meeting sponsored by the Centre for Mediaeval Studies, "Computers and Old English Concordances", on March 21.

MRS. J. A. CURTIS of Scarborough College and U.C. attended the Conference on Seventeenth Century Drama, held at the University of Iowa, Iowa City, March 13-15.

## Social Work

DR. FRANCIS BREGHA was a panelist at a workshop sponsored by the Ontario Association of Professional Social Workers at the YMHA, Toronto, Feb. 6; chaired two workshops Feb. 12-13, at the Second National Workshop on Community Development held at OISE, Toronto, and reported to the plenary session on training programs in Canada; became a member of the University Settlement's Board Committee on Purpose and Objectives on March 4; took part in the review of Canadian foreign policies vis-à-vis Latin America, sponsored by the Canadian Institute of International Affairs, March 7-8-9. He also served as executive secretary of a joint Canadian-American study group reviewing the ramifications of Canada's participation in hemispheric affairs and chaired the plenary meeting in New York, March 10; was a panelist at the

annual meeting of the Social Planning Council of Metropolitan Toronto, discussing Urban Growth and Community Development, March 26; and participated at the Roundtable on Science and Society as co-ordinator of recorders, as rapporteur to the plenary session, and as witness before the Special Committee on Science Policy of the Canadian Senate. He made one TV program and eight radio commentaries for the French CBC network during January and February.

## Hygiene

PROF. A. P. RUDERMAN attended the 1969 annual convention of the Alberta Public Health Association in Edmonton, giving the keynote address, "Fact and Folklore in the Age of Medicare", on April 10.

Three members of the Department of Health Administration attended the Canadian-American Border Conference on Hospital Costs and Utilization in Chicago, April 15-16. PROF. G. MCCracken presented a paper on "Trends in Facilities, Personnel, and Capital Funds in Canada and the United States". PROF. F. B. ROTH was an invited participant. Prof. Ruderman was co-organizer (Canada) of the meeting, which was sponsored by the American and Canadian Hospital Associations and the International Medical Care Committee of the American Public Health Association.

DR. H. MOGHADAM attended the Institute on Medical Education and Family Planning in Washington from March 23 to 26. This Institute was sponsored by the Association of American Medical Colleges to consider the role of medical schools in teaching of Family Planning.

## The Press

The following books have recently been published by the Press:

*Politics and The Public Interest in the Seventeenth Century.* By J. A. W. Gunn. \$8.75.

*The Code and the Cataloguer.* Edited by Katherine H. Packer and Delores Phillips. \$6.00.

*Voltaire: The Notebooks I & II* (Volumes 81 and 82 in The Complete Works of Voltaire). Edited by Theodore Besterman. \$40.00 the set.

*Bibliographie critique du roman canadien-français, 1837-1900.* Compiled by David M. Hayne and Marcel Tirol. \$4.00.

*Responsible Government in Ontario.* By F. F. Schindeler. \$8.50.

*The History of the Pioneer German Language Press of Ontario, 1835-1918.* By Herbert Karl Kalbfleisch. \$3.75.

*The Franchise and Politics in British North America.* By John Garner. \$7.50.

*The Loyal Whig: William Smith of New York and Quebec.* By L. F. S. Upton. \$8.50.

*The Jesuits' Estates Question, 1760-1888: A Study of the Background for the Agitation of 1889.* By Roy C. Dalton. \$5.50.

*Transactions of the American Ophthalmological Society, 1968.* \$35.00.

*Christmas Mummings in Newfoundland: Essays in Anthropology, Folklore and History.* Edited by Herbert Halpert and G. M. Story. \$7.50.

*Education and Manpower: Theoretical Models and Empirical Applications.* By Tore Thonstad. \$9.25.

*An Inquiry Concerning Growth, Disease and Ageing.* By Philip R. J. Burch. \$8.75.

## CAAT Presidents are guests at President's Council meeting

The President's Council met in the Council Chamber of the Galbraith Building on the afternoon of Monday, April 14, 1969. Prof. Conacher gave a short account of the meeting of the Committee of Presidents on April 11, which he had attended with the President as the academic representative of the University.

The Council had as guests the Presidents of the six Colleges of Applied Arts and Technology in the Metropolitan Toronto area, Oshawa and Brampton, and a representative of the President of Ryerson Polytechnical Institute, who had been invited to participate in a discussion of matters of mutual interest to the Colleges and the University.

With W. T. Newnham of Seneca College acting as unofficial chairman of the group, the Presidents first gave the Council a brief history of the Colleges and a factual account of their common structural elements. Several members of the Council commented that the governing structure seemed overly centralized, and the Presidents agreed that this point had already been raised among themselves, with some expressions of interest in change. However, they pointed out that the speed with which the Colleges had been organized—in some cases less than six months from a blank sheet of paper to opening their doors—had necessitated a strong central body from which decisions could be obtained rapidly, and that it was considered still too early to press for significant changes.

The Council was particularly interested in the academic programs being offered—kinds of courses, entrance requirements, recruitment of staff. The Presidents said that, taking the province as a whole, the range of courses is extensive, and can be virtually limitless. They are free to offer courses on almost any subject for which there seems to be interest and for which they can obtain staff, but a close check is kept on the local market to ensure the availability of employment for the graduate; a further check is made by the Council of Regents, the over-all governing body, to maintain a province-wide balance, and if there seems to be a danger of over-production in one field, the number of Colleges allowed to run a course in that field will be reduced. The courses are basically vocationally-oriented, of two or three years, and students are usually admitted from Grade 12, although entrance requirements are similarly almost limitless in variety. The Presidents said that they

do not see the Colleges as vestibules to the universities, neither do they wish them to become so regarded. Nor have many of their students shown interest in transferring to a university; a handful have done so, but there is no sign as yet that they will be followed by a sizeable number, although, of course, the Colleges wished to be reassured that the few who did want to transfer would receive sympathetic consideration.

As far as staff is concerned, they have had no difficulty in finding the kind of instructors they want. They come from a very wide variety of backgrounds, some from the academic world, but more from industry and business. Because so much of their work is of a vocational nature they look first for a teacher with several years of experience who has achieved a standard of excellence in his field, rather than for a recently-qualified academic, e.g., they want a good practical marine engineer to teach marine engineering.

Ryerson, as an established institution with a high reputation, is in a somewhat different position from the CAATs. Many of its graduates are teaching in the secondary schools; many already go on to the universities. And a further development is about to take place, with the start in September of their first four-year course; as this course already requires Grade 13 for entrance, it is likely that it will soon become qualified for a degree, and will probably be followed by interest in establishment of degree courses. Replying to a question, the Presidents of the Colleges said that for their part they did not anticipate the granting of degrees by the Colleges in the foreseeable future, and indeed they indicated that they would be very much averse to seeing this happen, because they feared it would turn the CAATs from first-rate institutions of their kind into fifth-rate universities.

Limitation of time forced adjournment of the meeting before the Presidents had had time to question the Council on the universities' experience with formula-financing, which they see as a possibility for themselves in the future. This and several other topics were suggested as the basis of a second meeting, an idea which seemed attractive to both the visiting Presidents and the Council members.

The next regular meeting of the President's Council will be held on Monday, May 12, at 2 p.m., in the Board Room, Simcoe Hall.

## CUG continues public hearings names May discussion leaders

The Commission on University Government has scheduled the following public hearings in May, at which individual and group submissions will be heard and discussed:

*Friday, May 2, 10.30 a.m.*—Representatives of Erindale College.

*Friday, May 9, 10 a.m.*—Dr. John B. Macdonald, executive vice-chairman, Committee of Presidents of the Universities and Colleges of Ontario; 2 p.m.—Andrew Andras, Canadian Labour Congress.

*Monday, May 12, 10 a.m.*—Sub-committee in the Faculty of Arts and Science; 2 p.m.—Dr. Gilbert de B. Robinson, vice-president, Research Administration; Dr. Gordon N. Patterson, director, Institute for Aerospace Studies; Hugh Armstrong, Ontario Union of Students.

*Tuesday, May 13, 7.30 p.m.*—All members of the Senate, with Dr. M. St. A. Woodside as principal spokesman.

*Wednesday, May 15, 10 a.m.*—Prof. J. B. Conacher, Department of History; 2 p.m.—Dean Thomas Howarth, Faculty of Architecture, Urban and Regional Planning, and Landscape Architecture; Prof. Albert Rose, director-designate, School of Social Work; Dean Roy Ellis, Faculty of Dentistry.

*Thursday, May 15, 10 a.m. and 2 p.m.*, various briefs.

*Friday, May 16, 10 a.m.*—Dr. G. E. Wodehouse, director, Health Service;

Dr. Donald McCulloch, director, Advisory Bureau; 2 p.m.—Prof. J. L. J. Edwards, director, Centre of Criminology; Prof. Martin Joos, director, Centre for Linguistic Studies; Prof. John F. Leyerle, director, Centre for Medieval Studies; Prof. J. Stefan Dupré, director, Centre for Urban and Community Studies.

*Tuesday, May 20, 10 a.m.*—Prof. Richard Judy, Institute for the Quantitative Analysis of Social and Economic Policies; B. L. Hansen, director, Office of Institutional Research.

All hearings listed above will be held in the Senate chamber, Simcoe Hall.

From noon until 1 p.m. Wednesday, May 14, the CBC television film, "The Occupation", which deals with a "sit-in" at McGill University, will be screened for CUG.

## Need accommodation for family of four in July

Dr. and Mrs. John S. Hanson of Burlington, Vermont, who have two school age children, would like to rent a furnished house or apartment from June 30 to July 26. If anyone has such accommodation to let, please get in touch with Mrs. Jaffary, director of the University Housing Service, 49 St. George Street, telephone 928-2542.

## Evening classes are approved for 1st year Engineering students

First-year courses in Engineering will be offered in future on a part-time as well as a full-time basis.

For some years now, the Division of University Extension has been receiving a significant number of requests that an evening program in First Year Engineering be established for students who are unable to study full-time. The present first-year course comprises nine subjects, all of which, it is proposed, would be offered under the new scheme. Those who acquire the necessary number of credits over a period of time will be permitted to proceed to their second year. However, the second, third, and fourth year courses will have to be taken on a full-time basis.

Admission requirements will be identical to those of the Faculty of Applied Science and Engineering and will thus be handled by the Faculty's Committee on Selection. No more than 70 students will be enrolled in any one subject, the

precise number being at the discretion of the committee.

Registration will be handled by the Division of University Extension and the deadline will be the same as for other degree students in this division.

Academic counselling will be available to all Engineering students and will be provided by the division. All degree students of the division are required to meet with a counsellor on admission and as required during the session.

The proposal, as put forward to the Senate, points out that it will be impossible to have an exact parallel between failure regulations for full-time and part-time students. The problem is compounded by the fact that daytime regulations do not require that individual subjects be passed but pass a student only on his overall average. The regulations for part-time students include a formula that would apply a sliding scale to ensure that a final pass will always be within theoretical reach of those who are allowed to proceed to further courses.